



PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/627,669
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
H. c.	AA	US- 4,357,578	11/2/1982	Yokoyama	
		US-			
H. c.	AB	US- 4,532,479	7/30/1985	Blauschild	
		US-			
H. c.	AC	US- 3,497,824	2/24/1970	Goordman	
		US-			
H. c.	AD	US- 6,486,737	11/26/2002	Carter	
		US-			
H. c.	AE	US- 6,518,842	2/11/2003	Carter, et al.	
		US-			
H. c.	AF	US- 4,555,673	11/26/1985	Huijsing, et al.	
		US-			
H. c.	AG	US- 5,714,906	2/3/1998	Motamed, et al.	
		US-			
H. c.	AH	US- 5,396,194	3/7/1995	Williamson, et al.	P41, 43, Fig 24C
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>St. Ch.</i>	Date Considered	9/10/04
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Sheet	1	of	7
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**NON PATENT LITERATURE DOCUMENTS**

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H-c.	CA	SIGNETICS, NE/SA5230 Low Voltage Operational Amplifier, 6/11/87, 853-0942 89304, Signetics, Sunnyvale, CA	
	CB	TOM DELURIO, et al., 2V op amp rides ..., Electronic Design, 7/25/85, Pages 151 - 155, Electronic Design,	
	CC	SIGNETICS, SE/NE5212 Transimpedance Amplifier, 5/2/1986, Signetics Linear, Sunnyvale, CA	
	CD	KESTER, High Speed Operational Amplifiers, High Speed Design Techniques, 1996, Pages 1-1 => 1-17, ISBN-0-916550-17-6, Analog Devices, Norwood, MA	
	CE	KESTER, High Speed Op Amp Applications, High Speed Design Techniques, 1996, Pages 2-36 => 2-38, ISBN-0-916550-17-6, Analog Devices, Norwood, MA	
	CF	ANALOG DEVICES, OP279 Rail-toRail High Output Current Operational Amp, Oct 1994, Analog Devices, Norwood, MA	
	CG	KESTER, 1992 Amplifier Applications Guide, 1992, Pages 10-11, ISBN-0-916550-10-9, Analog Devices, Norwood, MA	
	CH	ANALOG DEVICES, AD811 High Performance Video Op Amp, Page 2, 11/91, Analog Devices, Norwood, MA	
	CI	ANALOG DEVICES, AD8001 800 Mhz, 50 mW Current Feedback Amplifier, Page 2, 8/95, Analog Devices, Norwood, MA	
	CJ	ANALOG DEVICES, AD8011 300 Mhz, 1 mA Current Feedback Amplifier, Page 2 & 9, 2/95, Analog Devices, Norwood, MA	

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U.C.	DA	ANALOG DEVICES, BUF04 Closed-Loop High Speed Buffer, Page 9, 10/93, Analog Devices, Norwood, MA	
	DB	INTERSIL, HA-2539 600 MHz, Very High Slew Rate Op Amp, May 2003, FN2896.5, Intersil, Palm Bay, FL	
	DC	INTERSIL, HA-2540 400 MHz, Fast Settling Op Amp, July 2003, FN2897.5, Intersil, Palm Bay, FL	
	DD	HARRIS/INTERSIL, HFA-0005 High Slew Rate Op Amp, March 1993/Sept 1998, FN2918.1 & FN2918.2, Intersil, Palm Bay, FL	
	DE	HARRIS/INTERSIL, HA-5004 100 MHz Current Feedback Amplifier, March 1993, FN2823.1, Harris, Melbourne, FL	
	DF	HARRIS/INTERSIL, HFA1130 Ultra High-Speed CFA, March 1993/July 2002, FN3369 & FN3369.3, Intersil, Palm Bay, FL	
	DG	INTERSIL, HA-5190/5195 150 MHz, Fast Settling Op Amp, Aug 2002, FN2914.4, Intersil, Palm Bay, FL	
	DH	INTERSIL, HA-5102/5104 Dual & Quad 8 Mhz & 60 Mhz Low Noise Op Amp, June 2003, FN2925.8, Intersil, Palm Bay, FL	
	DI	HARRIS/INTERSIL, HA-5020 100 MHz Current Feedback Amplifier, 1992, FN845.2, Harris, Melbourne, FL	

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U-C.	EA	élantec, EL2038C 1GHz Op Amp, Nov 1993, élantec Semiconductor, Milpitas, CA Obsolete - out of print	
	EB	élantec, EL2041C Wideband, Fast Settling, Unity Gain Stable, Op Amp, Nov 1993, élantec Semiconductor, Milpitas, CA	
	EC	élantec, 1997 Data Book, 1997, élantec Semiconductor, Milpitas, CA AN #3, DC Restored 100 Mhz Current Feedback Video Amp, pages 8-7 => 8-17	
		AN #23, Practical CFamp Design Considerations, pages 8-122 => 8-132, By Barry Harvey	
		EL202C, 50 Mhz CFA, pages 2-58 => 2-71	
		EL2030C, 120 Mhz CFA, pages 2-75 => 2-88	
		EL2070C, 200 Mhz CFA, pages 2-137 => 2-150	
		EL400C, 200 Mhz CFA, pages 2-151 => 2-161	
		EL2070C, 150 Mhz CFA, pages 2-163 => 2-176	
		EL2099C, Video Distribution Amplifier, pages 2-219 => 2-232	
		EL2120C, 100Mhz CFA, pages 2-233 => 2-244	
		EL2130C, 85 Mhz CFA, pages 2-245 => 2-252	
		EL2160C, 130 Mhz CFA, pages 2-309 => 2-324	
		EL2166C, 110 Mhz CFA, pages 2-368 => 2-384	
		EL2170C, 70 Mhz/1mA Current Mode Feedback Amp, pages 2-385 => 2-400	
		EL2180C, 250 Mhz/3mA Current Mode Feedback Amp, pages 2-431 => 2-446	

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H. C.	FA	REA SCHMID, OA-25 Stability Analysis of CFAs, May 1995, AN012787, National Semiconductor (originally Comlinear), Santa Clara, CA	
	FB	REA SCHMID, OA-18 Simulation SPICE Models for Comlinear Op Amps, July 1995, National Semiconductor, Santa Clara, CA	
	FC	NATIONAL SEMI, CL109 Low-Power, Wideband, Closed-Loop Buffer, June 1994, National Semiconductor, Santa Clara, CA	
	FD	NATIONAL SEMI, CLC111 Ultra-High Slew Rate, Closed-Loop Buffer. June 1999, National Semiconductor, Santa Clara, CA	
	FE	NATIONAL SEMI, LH4118 Low Gain Wide Band RF Amplifier, Oct 1988, National Semiconductor, Santa Clara, CA	
	FF	TIMOTHY T. REGAN, AN-278 Designing with a New Super Fast Dual Norton Amplifier, Sept 1981, National Semiconductor, Santa Clara, CA	
	FG	NATIONAL, AN-72 The LM3900: A New Current-Differencing . . . Amplifiers, Sept 1972, Pages 1-10, National Semiconductor, Santa Clara, CA	
	FH	NATIONAL. Comlinear High-Speed Analog and Mixed-Signal Databook, Items & pages #'s to follow, 1997, National Semiconductor, Santa Clara, CA	
		LM6171 High Speed . . . Voltage Feedback Amplifier, pages 4-243 => 4-268	
		LM6181 100 mA, 100 Mhz Current Feedback Amplifier, pages 4-269 => 4-285	
		LM7171 Very High Speed . . . Voltage Feedback Amp, pages 4-344 => 4-357	

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U-C,	FH cont	CLC400 Fast Settling ... Op Amp, pages 4-20 => 4-23 CLC401 Fast Settling ... Op Amp, pages 4-24 => 4-27	
		CLC410 Fast Settling ... Op Amp, pages 4-60 => 4-65 Other datasheets corresponding to SPICE Models from OA-18 above item # FB: as listed on page 2 of reference FB (OA-18) above.	
	GA	NATIONAL SEMI, LM6142 ... Op Amps, National Op Amp Databook, 1995, pages 1-504 => 1-514, RRD/RRD150M95, National Semi, Santa Clara, CA	
	GB	LINEAR TECHNOLOGY, LT1206 250mA/60Mhz CFA, 6/24/93, LT/GP 0993 10K Rev 0, Linear Technology, Milpitas, CA	
	GC	LINEAR TECHNOLOGY, LT1217 Low Power 10Mhz CFA, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	
	GD	LINEAR TECHNOLOGY, LT1223 100Mhz CFA, BA/GP 0791 10K Rev 0, Linear Technology, Milpitas, CA	
	GE	LINEAR TECHNOLOGY, LT1227 140Mhz Video CFA, LT/GP 0892 10K Rev 0, Linear Technology, Milpitas, CA	
	GF	LINEAR TECHNOLOGY, LT1228 100Mhz CFA w/ DC Gain Control, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	
	GG	LINEAR TECHNOLOGY, LT1230 Dual & Quad 100Mhz CFA, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	

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H. c.	HA	LINEAR TECHNOLOGY, LT1252 Low Cost Video Amplifier, 10/1992 LT/GP 0293 10K Rev 0, Linear Technology, Milpitas, CA	
	HB	LINEAR TECHNOLOGY, LT1351 250uA, 3Mhz, 200 . . . Op Amp, Linear Technology, Milpitas, CA	
	HC	LINEAR TECHNOLOGY, LT1360 50 Mhz, 800V/us Op Amp, 1994 LT/GP 0494 10K, Linear Technology, Milpitas, CA	
	HD	LINEAR TECHNOLOGY, LT1813 Dual 3mA . . . Op Amp, 1999 1813f LT/TP 0999 40K, Linear Technology, Milpitas, CA	
	HE	ANDREAS HAHN, Application of Rail-to-Rail Op Amps, Dec 1999, SLOA039A, Texas Instruments, Dallas, TX	
	HF	JAMES KARKI, Voltage Feedback vs Current Feedback Op Amps, Nov 1998, SLVA051, Texas Instruments, Dallas, TX	
	HG	TI, THS3001 140-Mhz High-Speed CFA, July 1998, SLOS217, Texas Instruments, Dallas, TX	
	HH	TI, THS4150/4151 High-Speed Differential I/O Amps, May 2000 Rev Jan 2004, SLOS3210, Texas Instruments, Dallas, TX	
	HI	BURR BROWN (TI), OPA603 High Speed, Current-Feedback Op Amp, May 1991, PDS1026B, Burr Brown (now Texas Instruments), Tucson, AZ	
	HJ	BURR BROWN (TI), OPA622 Wide-Bandwidth Op Amp, Oct 1992, PDS-1131A, Burr Brown (now Texas Instruments), Tucson, AZ	

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H.C.	IA	BURR BROWN (TI), OPA623 Wide Bandwidth, Current-Feedback Op Amp, Dec 1992, PDS-1132A, Burr Brown (now Texas Instruments), Tucson, AZ	
"	IB	KLAUS LEHMANN, AB-180 Ultra High-Speed ICs, Burr-Brown IC Application Handbook, 1994, pages 244-248, LI-459, Burr Brown (now TI), Tucson, AZ	
"	IC	BURR BROWN (TI), OPA660 Wide Bandwidth, Operational Transconductance Amp & Buffer, Sept 1991, PDS-1072B, Burr Brown (now TI), Tucson, AZ	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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